

VESTIBULE OUTFITTING NODE 1 TO Z1 TRUSS

OBJECTIVE:

To remove CBM hardware and install utility jumpers essential to Flight 3A operations.

LOCATION:

Installed: N1, Z1 Vestibule

Stowed: ✓ Maint Dbase

DURATION:

TBD

PARTS:

Vestibule Outfitting Kit (VOK):

1 Cap Set:

4 EPS Power Connector Cap

TBD

2 Ground Straps

683-13477-7

MATERIALS:

None

TOOLS REQD:

Equip Bag

Kit A:

1/2" Combination Wrench

6" Adjustable Wrench

Kit C:

TBD Socket

Kit E:

Ratchet, 3/8" Drive

REFERENCED PROC(S):

None

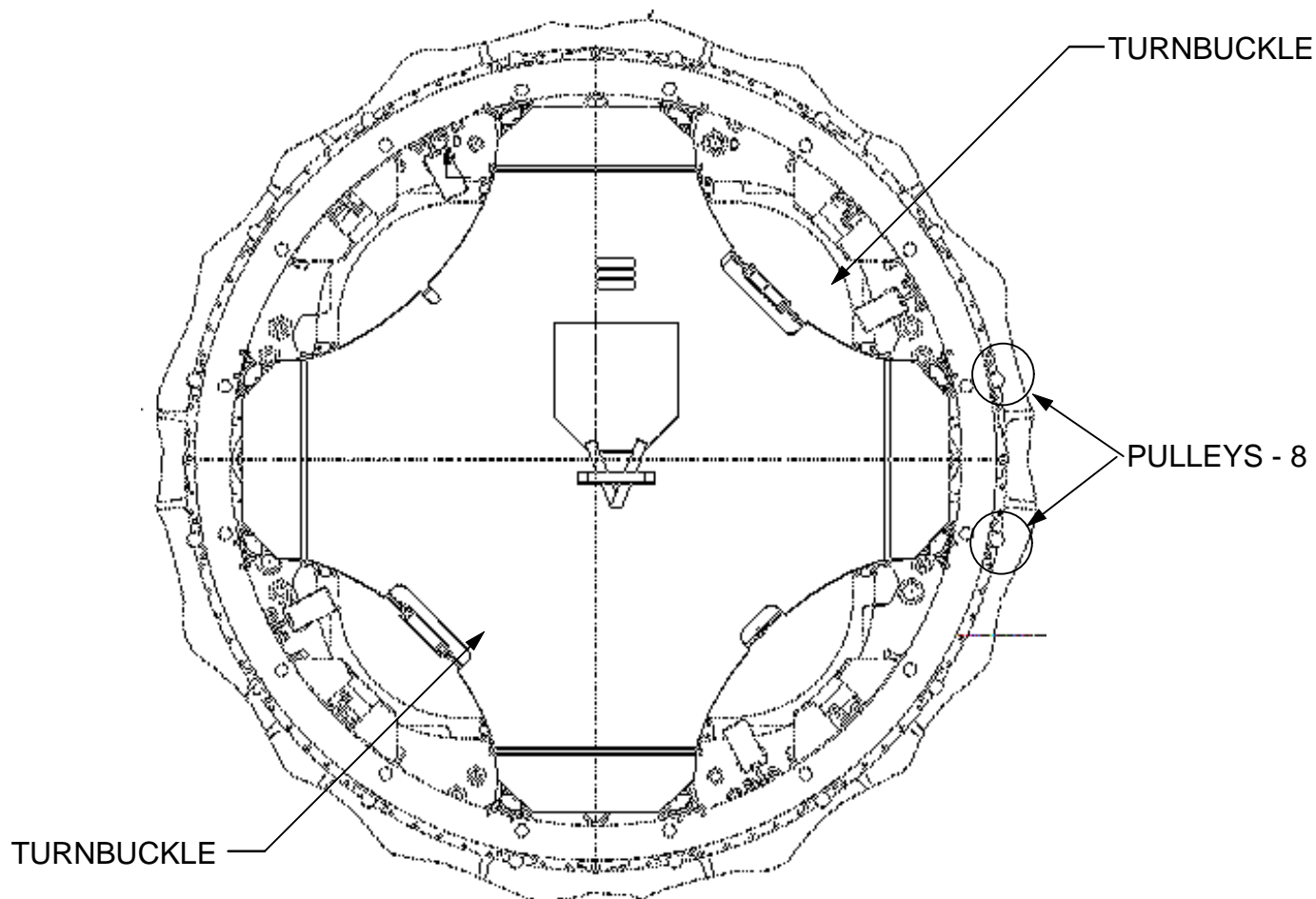


Figure 1. Meteor Debris Thermal Cover - View Looking From Passive To Active CBM

REMOVE

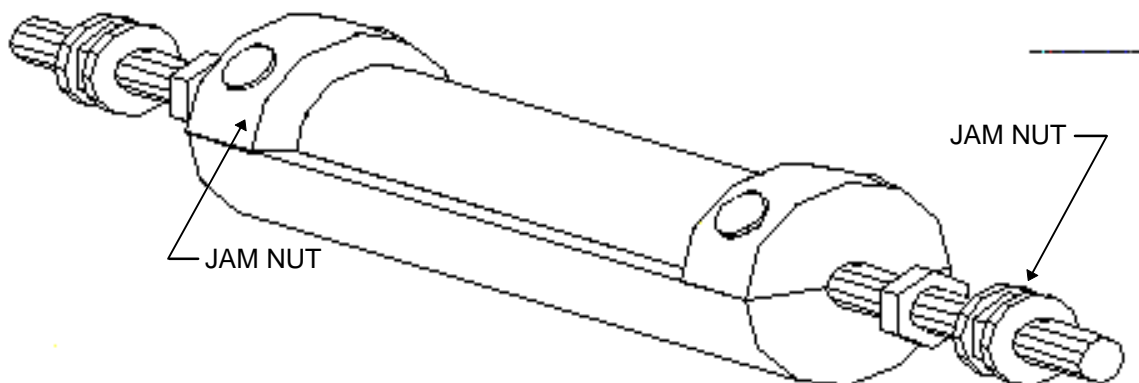


Figure 2. Turnbuckle

1. Loosen Jam Nuts (two) at ends of Turnbuckles (1/2" Combination Wrench, 6" Adjustable Wrench). See Figure 1 & 2.
2. Unscrew Turnbuckles (two), release tension on pulleys (approximately 72 turns produces a hard stop).

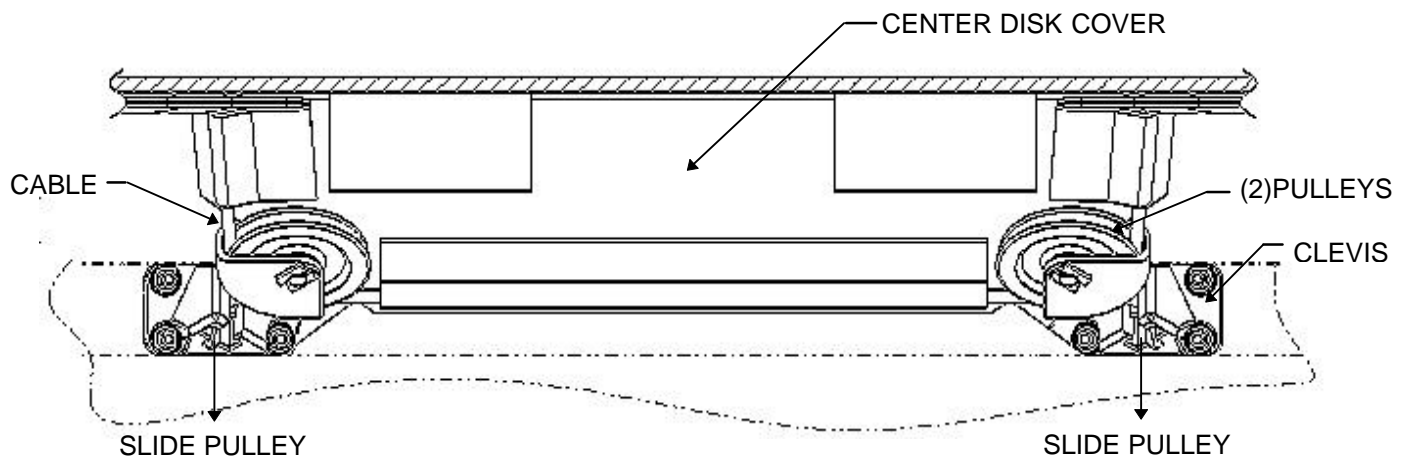


Figure 3. Pulley, Cable, and Clevis - View Looking From Center Of Center Disk

NOTE
Recommend removing pulleys and
standoff bars by quadrants.

3. Remove pulley from Clevis by pushing towards ACBM ring and sliding from Clevis. See Figure 3.

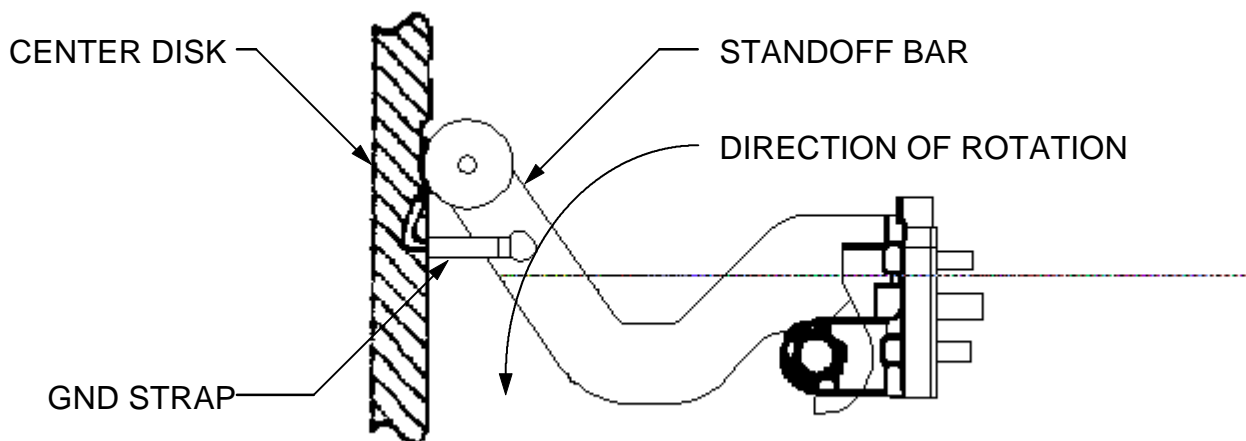


Figure 4. Side view of Standoff Bar

4. Remove Ground Strap (Ratchet 3/8", TBD Socket). See Figure 4.
5. Rotate standoff bar towards hatch center, remove from structure (Tm pry stow). See Figure 4.
6. Repeat steps 1 through 6 for remaining quadrants (three).
7. Fold cover (Tm pry stow).

INSTALL UTILITIES

8. Attach Ground Straps (two) across vestibule interface 180 degrees apart Zenith & Nadir sides of radial port (Tools TBD) (Fasteners two per strap).

EPS

9. Install Z1 Heater Wire Harnesses (W60 and W61) between Node 1 Zenith Bulkhead (J72 and J60) and Z1 Truss Bulkhead (P172 and P160) respectively (Tm pry stow all protective caps).
P172→|←J72, P160→|←J60.

10. Close Z1 dome heater RPC

PCS Node1:EPS

Node 1:EPS

Sel RPCM N14B B

RPCM N14B B

Cmd RPC 3 - Closed

√ RPC 3 - CI

NOTE

The installation of the clevis/pulley sets, standoff bars is done with respect to quadrants.

REPLACE THERMAL COVER

11. Remove cover from stowage. Slide cover in place past the ACBM motor controllers before unfolding it for installation.
12. Unfold top flap from center towards controller.
13. Grasp standoff bar with both hands, place hooks under bracket restraints.
14. Rotate standoff bar approximately 45 degrees away from controller using both hands to assure both hooks rotate evenly into place. See Figure 4.
15. Insert pulley, align T-shaped base of pulley stem with slot in clevis, slide pulley in an axial motion relative to active ring until pulley snaps into place. Repeat for additional pulley on quadrant.

NOTE

The nut located outside of the jam nut, the hex section of the cable terminal, indicates which way the threads run. The cable terminal with holes drilled in it indicates that all nuts on that side have left hand threads.

16. Restore tension to center disk, grasp turnbuckle and twist until it stops while holding tension on Cable Terminal Hex Section (1/2" Combination Wrench).
17. Tighten Jam Nuts (two) at ends of Turnbuckles (1/2" Combination Wrench, 6" Adjustable Wrench). See Figure 1 & 2.
18. Replace Ground Strap on Standoff Bar (Ratchet 3/8", TBD Socket). See Figure 4.
19. Repeat steps 12 through 17 for additional quadrants (three).
20. Stow tools, equipment.